AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) A vacuum assisted auto-lancing device, comprising:
- a housing having a body, the body being partitioned into a first chamber and a second chamber by a first partition plate, with a lever hole provided on an outer periphery of the first chamber at a position adjacent to a first end of the first chamber, and a locking protrusion vertically protruding from a position around the lever hole;

an actuating lever, comprising:

an actuating switch seated on the lever hole, and having at a lower portion thereof first and second actuating steps which pass through the lever hole;

a switch cap covering the actuating switch; and

a switch cover locking the actuating switch and the switch cap to a predetermined position of the body;

a holding unit, comprising:

- a first stem coupled at a first end thereof to an inner periphery of the first chamber, a second end of the first stem being exposed to an outside of the first chamber:
- a second stem integrally coupled to the first end of the first stem and placed in the first chamber; and
 - a stem cap to close a first end of the second stem;

a trigger comprising:

- a first trigger unit disposed at a position in the first and second stems, and activated by the first actuating step, with a lancet holder holding a lancet and being secured to an end of the first trigger unit which extends to the first stem; and
- a second trigger unit rotatably mounted to cover both sides and a top of the second stem, and activated by the second actuating step;

a blood collecting unit, comprising:

an adjusting screw positioned at the first end of the first chamber and rotatably secured to the first stem;

an adjusting slider fastened to the adjusting screw; and

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an end cap mounted to the first stem; and

a vacuum unit, comprising:

a plunger placed to reciprocate in the second chamber, and selectively passing

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through the first partition plate to engage with the second trigger unit; and

a body cap to lock the plunger to the second chamber.

2. (Original) The vacuum assisted auto-lancing device according to claim 1, wherein the

actuating switch is configured so that the second actuating step thereof is shorter in length than

the first actuating step thereof, and a first vacuum hole extends from an upper portion of the

actuating switch and passes between the first and second actuating steps, and the switch cap is

made of a flexible material to seal a gap between the actuating switch and the outer periphery of

the body, with a second vacuum hole formed on an upper surface of the switch cap to

communicate with the first vacuum hole, and the switch cover has at a central portion thereof a

through hole to allow the actuating switch surrounded by the switch cap to pass through the

switch cover, with a plurality of locking recesses provided on a lower surface of the switch cover

to engage with the locking protrusions.

3. (Original) The vacuum assisted auto-lancing device according to claim 1, wherein the

first partition plate has on a central portion thereof a first spring mounting protrusion protruding

toward the second chamber, with a first guide hole formed at a predetermined position on the

first spring mounting protrusion, and second guide holes formed on opposite sides of the first

guide hole, and a first external threaded part is provided on an outer periphery of a first end of

the second chamber, and a first internal threaded part is provided on the inner periphery of the

first chamber at a position adjacent to the first end of the first chamber.

4. (Original) The vacuum assisted auto-lancing device according to claim 3, wherein the

holding unit further comprises: a second external threaded part provided on an outer periphery of

the first end of the first stem of the holding unit to correspond to the first internal threaded part; a

first o-ring mounted to a position around the second external threaded part to seal a gap between

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the inner periphery of the first chamber and an outer periphery of the first stem; an annular groove provided at a position around the first o-ring; a second o-ring fitted over the second end of the first stem that is exposed to an outside of the first chamber; and a second partition plate integrally mounted to an inner periphery of the first end of the first stem, with a third guide hole formed at a central portion of the second partition plate, and a fourth guide hole provided above the third guide hole to extend to the inner periphery of the first stem.

- 5. (Original) The vacuum assisted auto-lancing device according to claim 4, wherein first guide rails are provided on upper and lower portions of the outer periphery of the first stem to extend from the first o-ring to the second o-ring, and a first guide groove is provided on an upper portion of the inner periphery of the first stem to extend from a position around the fourth guide hole to the second end of the first stem.
- 6. (Original) The vacuum assisted auto-lancing device according to claim 5, wherein the second stem comprises: hinge shafts protruding from both side surfaces of the second stem, with a stopper protruding from a position under either of the hinge shafts; a first depression provided by vertically cutting out an upper portion of the second end of the second stem; a second depression provided by horizontally cutting out a portion around the first depression; and locking holes provided on upper and lower portions of the first end of the second stem, a stem cap being mounted to the first end of the second stem and having the same shape as the first end of the second stem, with a second spring mounting protrusion provided on a surface of the stem cap and locking steps provided on upper and lower portions of the stem cap to be fitted into the corresponding locking holes.
- 7. (Original) The vacuum assisted auto-lancing device according to claim 6, wherein the first trigger unit of the trigger comprises: a base plate vertically placed in the second stem, with a third spring mounting protrusion provided at a central portion on a first surface of the base plate to face the second spring mounting protrusion and support a lancet spring; a joint bar extending from a second surface of the base plate to a predetermined position to pass through the third

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guide hole, with a rebound spring fitted over the joint bar, and the lancet holder holding the

lancet secured to an end of the joint bar which passes through the third guide hole; and a lancet

locking plate provided at an upper position on the second surface of the base plate to pass

through the fourth guide hole and extend to the first guide groove, with a first trigger protrusion

provided at an upper position of an end of the lancet locking plate and selectively engaging with

the second depression to be struck by the first actuating step.

8. (Original) The vacuum assisted auto-lancing device according to claim 6, wherein the

second trigger unit comprises: seesaw plates each having at a central portion thereof a hinge hole

to rotatably engage with the corresponding hinge shaft, with a first hook provided at a lower

portion on a first side of the hinge hole of each of the seesaw plates, and an elastic piece

provided at a lower portion on a second side of either of the seesaw plates to be in close contact

with an upper surface of the stopper; a plunger locking plate coupling upper edges of the seesaw

plates to each other, and seated in the first depression; and a second trigger protrusion provided

at an upper portion of the plunger locking plate to be struck by the second actuating step.

9. (Original) The vacuum assisted auto-lancing device according to claim 6, wherein the

adjusting screw of the blood collecting unit has a shape of an annular ring, with a depth adjusting

internal threaded part provided on an inner periphery of the adjusting screw, and a plurality of

rotary protrusions having hook shapes protruding radially to be rotatably fitted into the annular

groove, and the adjusting slider has a shape of an annular ring, with a depth adjusting external

threaded part provided on an outer periphery of the adjusting slider to correspond to the depth

adjusting internal threaded part, and second guide grooves formed on upper and lower portions

of an inner periphery of the adjusting slider to engage with the first guide rails, and the end cap

has a shape of a cylinder which is opened at both ends thereof and tapered in a predetermined

direction, with an upper portion of an inner periphery of the end cap coming into close contact

with the second o-ring of the first stem.

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10. (Original) The vacuum assisted auto-lancing device according to claim 9, wherein

the end cap further comprises stabilizing protrusions which integrally extend inwards from both

sides of a lower portion on the inner periphery of the end cap.

11. (Original) The vacuum assisted auto-lancing device according to claim 9, wherein

the end cap is made of a transparent material to allow a user to observe collected blood, and a

contact plate having a flange shape is integrally provided at an end of the end cap and radially

extends outwards from the end of the end cap, the contact plate being curved upwards to be in

close contact with a predetermined body site.

12. (Original) The vacuum assisted auto-lancing device according to claim 9, wherein

the plunger of the vacuum unit has second guide rails on both sides of an outer periphery of the

plunger, and an interior of the plunger is partitioned into a third chamber and a fourth chamber

by a third partition plate, and a third o-ring is fitted over an end of the third chamber and is in

close contact with the inner periphery of the second chamber, and mounting plates are provided

on both sides of the end of the third chamber and horizontally extend to an outside of the third

chamber, thus selectively passing through the second guide holes, with a second hook provided

on an upper end of each of the mounting plates to engage with the first hook, and a fourth spring

mounting protrusion is provided in the third chamber and extends from the third partition plate to

face the first spring mounting protrusion and support the plunger spring.

13. (Original) The vacuum assisted auto-lancing device according to claim 12, wherein

the body cap is shaped so that a first end thereof is opened and a second end thereof is closed, the

body cap comprising a plunger hole provided on the second end of the body cap to allow the

plunger to move in and out of the body cap, third guide grooves provided on opposite side of the

plunger hole to guide the second guide rails, and a second internal threaded part provided on an

inner periphery of the body cap to engage with the first external threaded part.

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14. (Original) The vacuum assisted auto-lancing device according to claim 12, wherein an end of the fourth chamber is closed by the plunger cap which is made of a flexible material, and a strip for testing blood glucose is placed in the fourth chamber which is closed by the plunger cap.